

DuPont™ DryFilm LW-2120 Dispersions

Product Information

DuPont™ DryFilm LW-2120 dispersion is a non-flammable and extremely stable dry lubricant designed specifically as a blade coating. Because it consists of extremely small particles, LW-2120 yields very stable dispersions. The dispersion stability results in minimal processing problems and highly uniform films.

Dilution

DuPont™ DryFilm LW-2120 is furnished as an aqueous dispersion of 20% solids by weight. The product can be extended with additional amounts of water. **Table 1** shows the total parts DuPont™ DryFilm LW-2120 dispersion and solvent required to achieve a range of final concentrations.

Table 1
DuPont™ DryFilm LW-2120 Dispersions
Dilution Table

Final Concentration wt%	Parts DuPont™ DryFilm LW-2120 Dispersions	Parts Solvent
10	1	1
5	1	3
2.5	1	8
1	1	20

Application

DuPont™ DryFilm LW-2120 is applied in any of several methods, including dipping, spraying, or brushing onto a prepared surface. After application, DuPont™ DryFilm LW-2120 dispersion can be air-dried or melt-coated.

For melt-coating, the coated surface should be heated to a temperature of 340–360 °C (644–680 °F); the temperature should be held for 5–10 min. A soft cloth should be used to remove residual solids from the metal surface. DuPont™ DryFilm LW-2120 is perishable if frozen. Do not allow the product to freeze.

Product Description

The functional ingredient of DuPont™ DryFilm LW-2120 dispersion is polytetrafluoroethylene, or PTFE, which has an extremely low coefficient of friction, and thus imparts high lubricity and excellent nonstick properties.

DuPont™ DryFilm LW-2120 dispersion is resistant to most chemicals and is also extremely thermally stable. DuPont™ DryFilm LW-2120 dispersion is essentially insoluble in all nonfluorinated solvents. Typical properties of DuPont™ DryFilm LW-2120 dispersion are shown in **Table 2**.

Table 2
DuPont™ DryFilm LW-2120 Dispersions
Typical Properties

PTFE Solids	
Solids, wt%	20
Melting Point	323 °C (613.4 °F)
Molecular Weight	40,000
Density, g/cc	2.16
Particle Size, µm	<0.2
Dispersion	
Boiling Point	100 °C (212 °F)
Vapor Pressure at 20 °C (68 °F)	24 mmHg
Freezing Point	0 °C (32 °F)
% Volatiles	80
Odor	Slightly Sweet
Color	Creamy White
Specific Gravity	1.1
Solvent	Water



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